

RADIO APPARATUS

HEAD PHONES
T. SOCKETS
T. RHEOSTATS
TESTHOUSE SETS
CLIFF-EASTHAM SETS
COMPLETE STOCK OF GUARANTEED PARTS

INFORMATION! Our practical radio technicians will be glad to assist you in the selection of a set best suited to your needs. Help and advice in designing your own set is available here without charge.

H. Royer Smith Co.
Victrolas, Radio Apparatus
10th and Walnut Streets
OPEN DAILY 9 P. M. DAILY SATURDAY UNTIL 9 P. M.

West Philadelphia RADIO CENTER

Special ANTENNA This WIRE, 75c
Week For Hundred Feet

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BITE WITH FALSE TEETH? SURE!

Dr. Wernet's Powder

Keeps them tight

Relieves sore gums, sweetens the breath, a white powder. At best Drug or Department Store, 50c, 60c, \$1.00 or write direct to Wernet Dental Co., 115 So. 4th St., N. Y.

The old-fashioned "jimmy"

SUCH a tool as this sneaks at window locks or iron bars. But the use of such tools automatically sets going the entire Holmes Electric Protection system. So Holmes sneaks at jimmys.

Where there is Holmes there is safety

HOLMES ELECTRIC PROTECTION

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DYED A SWEATER AND SKIRT WITH "DIAMOND DYES"

Every "Diamond Dyes" package tells how to dye or tint any worn, faded garment or drapery a new rich color that will not streak, spot, fade or run. Perfect home dyeing is guaranteed with Diamond Dyes even if you have never dyed before. Just tell your druggist whether the material you wish to dye is wool or silk or whether it is linen, cotton or mixed goods. For fifty-one years millions of women have been using "Diamond Dyes" to add years of wear to their old, shabby waists, skirts, dresses, coats, sweaters, stockings, draperies, hangings, everything!—Adv.

Cuticura Is The Best Beauty Doctor

Daily use of Cuticura Soap, with Cuticura Ointment, will clear your skin, keep it soft, and prevent every skin trouble. Cuticura is the best beauty doctor.

RADIO IN THE HOME

By HENRY M. NEELY

Typical receiving outfit. On left—apparatus used to "tune" signals. On right—tuner hooked up to unit which makes signals plainly audible and another which makes them thirty or more times as strong

No. 4. What Will It Cost for a Set?

Perhaps the question of finances should have been the first one discussed in this series on radio. What, then, will it cost to inaugurate set to receive these radio broadcasts?

The answer is necessarily indefinite. Anywhere from \$5 to \$250. It will depend entirely on what you want to get and your location.

First, you will have to understand that there are two great generalizations among receiving sets. There is the type of set that uses a piece of mineral or crystal to receive through. There is the type of set that uses a specially designed incandescent light, known as an audion valve, or bulb, to receive through.

The bulb is by all odds the most efficient—from thirty to several hundred times as efficient. That is to say, insert first a crystal and then a bulb in the same set and the bulb will make the same signals give out signals so much louder that there can be no comparison. And the bulb will enable you to hear stations that would not make the slightest sound through the piece of mineral.

There is another aspect of this. Most people who install a radio set want one that will do away with the phonograph. The crystal type cannot be used with a loud speaker with any satisfaction. Why, then, will you ask, bother about the crystal type at all?

It is to be understood in the first place that any one who wants such results must positively use the bulb type of receiver. The crystal type cannot be used with a loud speaker with any satisfaction. Why, then, will you ask, bother about the crystal type at all?

Well, the crystal set has its uses. If you are within about five miles of a powerful broadcasting station and want the music and speech for yourself alone, a simple crystal set will answer as an amusement. If you are five miles or more away from the sending station, you might as well give up all thoughts of using a crystal detector.

Turning to the bulb type we strike the expensive but the most efficient type of set with only one bulb, you will have to spend quite a tidy sum, even if you buy the parts separately and assemble the set yourself. There are certain things that are essential and they all cost money.

Here is just a list of the necessities with approximate prices. Exceed the technical names of the things you needn't bother yet to learn what they mean; it is enough to know that you have to have them so as to get a general idea of the cost. This set is for the best "hook up" to receive the majority of broadcasting stations which send on a 300-meter wavelength. It is known as the "regenerative set," and is by means the most efficient for short waves, from 200 to 500 meters.

Your aerial apparatus will cost about \$5.
Vario-coupler, \$0.50.
Two variometers, \$10.
Variable condenser, \$5.
Grid condenser, fifty cents.
Phones, \$0.
Six-volt storage battery to light the bulb, \$15.
Dry cells for "B" battery, \$2.50.
Bulb, \$5.
Rheostat, \$1.50.

There's \$58 right there. But remember that when you have it and it is hooked up and you get that first thrilling, awe-inspiring sound of a human voice coming from five hundred miles away, your \$58 will seem like a mighty small price to pay for one of the most wonderful sensations that modern science has given us.

Each Sunday night, with a set like this, I have listened to the actual services in a church 370 miles away, with four or five phones connected in the circuit.

To operate a loud speaking horn or phonograph, you will need what is known as "amplification." This means that you must attach apparatus to build up and increase the strength of the signals received.

There are audion bulbs made for this special purpose and if you use one of them you have what is called "one step amplification." If you use two amplifying bulbs, you have two steps, and so forth. Few amateurs go beyond two steps and this is usually sufficient to operate a horn or phonograph.

The amplification will cost you about \$20 for each step.

Just one word of caution. In pricing standard receiving outfits, remember that they are almost always sold without bulb, aerial outfit, storage battery, "B" battery or plates. Get the prices of these articles from this list and add to the price of the set to estimate total cost. And, if you buy amplifiers already made up in neat packages, add \$6.50 for the bulb for each set.

Today's Programs

Philadelphia Station (WIP)
(Broadcasting & Clothing)
7:15 P. M.—Late news items from the Raymond Show.
Afternoon concert at 4 P. M.—Blanche Keith, soprano; Margaret Crowell Barr, contralto; Harold A. Simons, tenor.
Evening concert beginning at 7:30 P. M.—A variety program of vocal and instrumental music.

Philadelphia Station (WIP)
(Classical and Popular Music)
7:15 P. M.—Classical and popular music by the Glimmer Orchestra under the direction of Raymond Show.
7:30 P. M.—Saxophone solo, Vincent Guinelli, accompanied by Raymond Show.
7:45 P. M.—Latest popular dance hits on the talking machine; new device used for transmitting nature's perfect reproduction.
8:15 P. M.—Popular vocal selections, Carl Schirmer, Al Carolina, Roland Stone, (3) "Rock Me to Sleep in My Swane Garden"; piano accompaniment, Joseph Pagan.
8:30 P. M.—Soprano solo, Mrs. Ella McGuire, "Kiss Me Again"; Herbert, violin obbligato.
8:50 P. M.—News items, courtesy Francis Lawrence.
9:00 P. M.—Final baseball scores via Radio.
9:15 P. M.—Detective stories for the kid; "The Adventure of the Blue Room" by Uctie Thornton; W. Burgess, read by Uncle Thornton.
9:30 P. M.—"Uncle W" will announce the musical program for the evening.
9:45 P. M.—Mina Dolores will give a short recital, known as "March Royal Trau-peters"; Helmer, by the orchestra; Soprano solo by Mrs. M. A. Aschworth; "March Royal Trau-peters"; Helmer; "An Old Garden Temple"; "Jean, Burleigh"; On for a Day in Spring; Andrew, Berlin; Phone Cabbler and the Crow; "O Evening a Silver"; The Bull Prop of the Bank; "The Male Quartet"; Solo solo, "Bernade"; Wider, by W. G. Aschworth; soprano solo; "The Little Gray Dove"; Cadman; "The Moon Drops Low"; Cadman; "Hopak"; Mousouristy.

Newark, N. J., Station (WZZ)
(Westinghouse)
7 P. M.—"Jack Rabbit Stories," by David Corry.
7:30 P. M.—"Singles," by A. L. Warner.
8:30 P. M.—"Your Daily Marketing," by May B. Van Arsdale, associate professor of business arts, Teachers' College, Columbia University.
8 to 10:15 P. M.—Concert by the West Orange Community Orchestra, Wm. G. Aschworth, director; Program—"March National Emblem"; "Hedley"; "Overture"; "Greenaway"; "Selection"; "Painly"; "Dorothy"; "Miles"; "Waltz"; "Aloha"; "Lake"; "La Caravane"; "Garden"; "March Royal Trau-peters"; Helmer; by the orchestra; Soprano solo by Mrs. M. A. Aschworth; "March Royal Trau-peters"; Helmer; "An Old Garden Temple"; "Jean, Burleigh"; On for a Day in Spring; Andrew, Berlin; Phone Cabbler and the Crow; "O Evening a Silver"; The Bull Prop of the Bank; "The Male Quartet"; Solo solo, "Bernade"; Wider, by W. G. Aschworth; soprano solo; "The Little Gray Dove"; Cadman; few remarks by Rev. Geo. Bayre Miller, pastor Wash. St. Bapt. Church, Orange, N. J.

Pittsburgh Station (KDKA)
(Westinghouse)
8:30 P. M. and at fifteen-minute intervals thereafter, baseball scores for the children.
9:00 P. M.—"Tinder Box," a bedtime story for the children.
9:15 P. M.—Government market reports, and a report of the New York Stock Exchange.
9:30 P. M.—Bids Academy Country School—A New Educational Development Program.
9:45 P. M.—"The Pittsburgh Citizen," Organized Play and Recreation," by Sidney A. Taylor, resident director Irene Kaufman Playhouse.
9:50 P. M.—Miss Beulah B. Walk, reader, speaks of Mary E. Byron, School of Expression; Miss Mary P. Walk, accompanist; Miss Beulah B. Walk, second solo; first cornet, Henry L. Roth, second cornet, Anthony; "Karamazov"; John Koenig, accompanist; trombone; John Koenig, accompanist.
Selections: 1—"Prize to the Father"; 2—"What God Made Mothers"; 3—"Six-Volt Battery"; 4—"Minute Waltz"; 5—"On the River"; 6—"The Young Fellow My Lad"; 7—"Miss Koenig"; 8—"Tonight"; 9—"Tribute to March"; 10—"John A. Koenig"; 11—"Bessie B. Walk"; 12—"Where"; 13—"Tribute to March"; 14—"John A. Koenig"; 15—"Bessie B. Walk"; 16—"Where"; 17—"Tribute to March"; 18—"John A. Koenig"; 19—"Bessie B. Walk"; 20—"Where"; 21—"Tribute to March"; 22—"John A. Koenig"; 23—"Bessie B. Walk"; 24—"Where"; 25—"Tribute to March"; 26—"John A. Koenig"; 27—"Bessie B. Walk"; 28—"Where"; 29—"Tribute to March"; 30—"John A. Koenig"; 31—"Bessie B. Walk"; 32—"Where"; 33—"Tribute to March"; 34—"John A. Koenig"; 35—"Bessie B. Walk"; 36—"Where"; 37—"Tribute to March"; 38—"John A. Koenig"; 39—"Bessie B. Walk"; 40—"Where"; 41—"Tribute to March"; 42—"John A. Koenig"; 43—"Bessie B. Walk"; 44—"Where"; 45—"Tribute to March"; 46—"John A. Koenig"; 47—"Bessie B. Walk"; 48—"Where"; 49—"Tribute to March"; 50—"John A. 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Walk"; 724—"Where"; 725—"Tribute to March"; 726—"John A. Koenig"; 727—"Bessie B. Walk"; 728—"Where"; 729—"Tribute to March"; 730—"John A. Koenig"; 731—"Bessie B. Walk"; 732—"Where"; 733—"Tribute to March"; 734—"John A. Koenig"; 735—"Bessie B. Walk"; 736—"Where"; 737—"Tribute to March"; 738—"John A. Koenig"; 739—"Bessie B. Walk"; 740—"Where"; 741—"Tribute to March"; 742—"John A. Koenig"; 743—"Bessie B. Walk"; 744—"Where"; 745—"Tribute to March"; 746—"John A. Koenig"; 747—"Bessie B. Walk"; 748—"Where"; 749—"Tribute to March"; 750—"John A. Koenig"; 751—"Bessie B. Walk"; 752—"Where"; 753—"Tribute to March"; 754—"John A. Koenig"; 755—"Bessie B. Walk"; 756—"Where"; 757—"Tribute to March"; 758—"John A. Koenig"; 759—"Bessie B. Walk"; 760—"Where"; 761—"Tribute to March"; 762—"John A. Koenig"; 763—"Bessie B. Walk"; 764—"Where"; 765—"Tribute to March"; 766—"John A. Koenig"; 767—"Bessie B. Walk"; 768—"Where"; 769—"Tribute to March"; 770—"John A. Koenig"; 771—"Bessie B. Walk"; 772—"Where"; 773—"Tribute to March"; 774—"John A. Koenig"; 775—"Bessie B. Walk"; 776—"Where"; 777—"Tribute to March"; 778—"John A. Koenig"; 779—"Bessie B. Walk"; 780—"Where"; 781—"Tribute to March"; 782—"John A. Koenig"; 783—"Bessie B. Walk"; 784—"Where"; 785—"Tribute to March"; 786—"John A. Koenig"; 787—"Bessie B. Walk"; 788—"Where"; 789—"Tribute to March"; 790—"John A. Koenig"; 791—"Bessie B. Walk"; 792—"Where"; 793—"Tribute to March"; 794—"John A. Koenig"; 795—"Bessie B. Walk"; 796—"Where"; 797—"Tribute to March"; 798—"John A. Koenig"; 799—"Bessie B. Walk"; 800—"Where"; 801—"Tribute to March"; 802—"John A. Koenig"; 803—"Bessie B. Walk"; 804—"Where"; 805—"Tribute to March"; 806—"John A. Koenig"; 807—"Bessie B. Walk"; 808—"Where"; 809—"Tribute to March"; 810—"John A. Koenig"; 811—"Bessie B. Walk"; 812—"Where"; 813—"Tribute to March"; 814—"John A. Koenig"; 815—"Bessie B. Walk"; 816—"Where"; 817—"Tribute to March"; 818—"John A. Koenig"; 819—"Bessie B. Walk"; 820—"Where"; 821—"Tribute to March"; 822—"John A. Koenig"; 823—"Bessie B. Walk"; 824—"Where"; 825—"Tribute to March"; 826—"John A. Koenig"; 827—"Bessie B. Walk"; 828—"Where"; 829—"Tribute to March"; 830—"John A. Koenig"; 831—"Bessie B. Walk"; 832—"Where"; 833—"Tribute to March"; 834—"John A. Koenig"; 835—"Bessie B. Walk"; 836—"Where"; 837—"Tribute to March"; 838—"John A. Koenig"; 839—"Bessie B. Walk"; 840—"Where"; 841—"Tribute to March"; 842—"John A. Koenig"; 843—"Bessie B. Walk"; 844—"Where"; 845—"Tribute to March"; 846—"John A. Koenig"; 847—"Bessie B. Walk"; 848—"Where"; 849—"Tribute to March"; 850—"John A. Koenig"; 851—"Bessie B. Walk"; 852—"Where"; 853—"Tribute to March"; 854—"John A. Koenig"; 855—"Bessie B. Walk"; 856—"Where"; 857—"Tribute to March"; 858—"John A. Koenig"; 859—"Bessie B. Walk"; 860—"Where"; 861—"Tribute to March"; 862—"John A. Koenig"; 863—"Bessie B. Walk"; 864—"Where"; 865—"Tribute to March"; 866—"John A. Koenig"; 867—"Bessie B. Walk"; 868—"Where"; 869—"Tribute to March"; 870—"John A. Koenig"; 871—"Bessie B. Walk"; 872—"Where"; 873—"Tribute to March"; 874—"John A. Koenig"; 875—"Bessie B. Walk"; 876—"Where"; 877—"Tribute to March"; 878—"John A. Koenig"; 879—"Bessie B. Walk